

Pursuant to the authority vested in the California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapters 1 and 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The engines and emission control systems produced by the manufacturer as described below are certified for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

Model Year	Engine Family	Combustion Cycle	Fuel Operation	Fuel Type(s)	Engine Operation
2024	RKBXL06.1C5D	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Charged Air Cooler (CAC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Turbocharger (TC), Diesel Oxidation Catalyst (DOC), Periodic Trap Oxidizer (PTOX), Selective Catalytic Reduction – Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX)	None

The certified engine models are attached.

The listed engine models comply with the following: 1) emission standard limits (STD) and Not-To-Exceed (NTE) limits, as applicable, for criteria pollutants non-methane hydrocarbons (NMHC), nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM), and for smoke opacity as demonstrated during the Acceleration (ACL) and Lugging (LUG) modes, and the peak value (PEAK) in either mode of the Smoke Opacity cycle, as set forth in 13 CCR 2423 and the applicable California test procedures for off-road compression-ignition engines, and 2) family emission limits (FEL) declared by the manufacturer as allowed by the applicable California test procedures, stated in units of gram per kilowatt-hour (g/kWh-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

Applicable Standard		Criteria				Smoke Opacity		
		NMHC	NOx	CO	PM	ACL	LUG	PEAK
Tier 4 Final 75 ≤ kW < 130	STD	0.19	0.40	5.0	0.02	*	*	*
	FEL	*	*	*	*	*	*	*
	NTE	0.28	0.60	6.2	0.03	*	*	*

BE IT FURTHER RESOLVED: Any declared FEL is the emission limit to which all engines must comply in lieu of the standard limit for certification purposes, subject to the restrictions of averaging, banking, or trading (ABT) programs allowed by the applicable California test procedures.

BE IT FURTHER RESOLVED: That the manufacturer has elected to combine engines from the 56 ≤ kW < 130 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 75 ≤ kW < 130 power category in accordance with Section 1039.230(e) of the applicable California test procedures.

BE IT FURTHER RESOLVED: For the listed engine models, the manufacturer has submitted materials to demonstrate certification compliance with 13 CCR 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models may only be installed in or on equipment such that engine operation is consistent with off-road compression-ignition engines as defined in 13 CCR 2421(a)(39).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed on this 4th day of December 2023.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RKBXL06.1C5D EO Number: U-R-025-1107 Date Applicable: 10/6/2023

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
V6108-CR-TI-DV	V6108-CR-TI-DV01	N/A	I4	6.124	129	2200	135.5	711	1200	162	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV02	N/A	I4	6.124	125.4	2200	131.8	690	1200	157	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV03	N/A	I4	6.124	110.6	2200	116.7	607	1200	137	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV04	N/A	I4	6.124	105.5	2200	111.5	586.1	1500	136	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV05	N/A	I4	6.124	98.1	2200	104.5	544.1	1500	125	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV06	N/A	I4	6.124	129	1900	143.7	711	1500	153	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV07	N/A	I4	6.124	125	1900	138.7	689	1500	148.4	1	N/A	
V6108-CR-TI-DV	V6108-CR-TI-DV08	N/A	I4	6.124	110.3	1900	122.3	600	1500	129	1	N/A	
V6108-CR-TI-DW	V6108-CR-TI-DW00	N/A	I4	6.124	129	1900	139.6	730	1500	162.4	1	N/A	
V6108-CR-TI-DW	V6108-CR-TI-DW02	N/A	I4	6.124	129	1900	139.6	711	1500	154.3	1	N/A	
V6108-CR-TI-DW	V6108-CR-TI-DW03	N/A	I4	6.124	125	1900	135	689	1500	148.6	1	N/A	
V6108-CR-TI-DW	V6108-CR-TI-DW04	N/A	I4	6.124	110.3	1900	119	600	1500	129.4	1	N/A	